

TITLE

ELECTRICALLY CONDUCTING ORGANIC POLYMER/NANOPARTICLE  
COMPOSITES AND METHODS FOR USE THEREOF

ABSTRACT OF THE INVENTION

5           Compositions are provided comprising aqueous dispersions of  
electrically conducting organic polymers and a plurality of nanoparticles  
wherein pH can be adjusted for improved organic electronic device  
performance. Films deposited from invention compositions are useful as  
buffer layers in electroluminescent devices, such as organic light emitting  
10   diodes (OLEDs) and electrodes for thin film field effect transistors. Buffer  
layers containing nanoparticles may have a much lower conductivity than  
buffer layers without nanoparticles. In addition, when incorporated into an  
electroluminescent (EL) device, buffer layers according to the invention  
contribute to higher stress life of the EL device.

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MAC/dmm